

## PATENT COOPERATION TREATY

## PCT

REC'D 05 APR 2004

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## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>4-32798A</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/EP 03/14086</b>	International filing date (day/month/year) <b>11/12/2003</b>	(Earliest) Priority Date (day/month/year) <b>12/12/2002</b>
Applicant <b>NOVARTIS AG</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:



contained in the international application in written form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☒ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

**4. With regard to the title,**

the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

**ANTHRANILIC ACID AMIDE DERIVATIVES AND THEIR PHARMACEUTICAL USE**

**5. With regard to the abstract,**

the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

**6. The figure of the drawings to be published with the abstract is Figure No.**

as suggested by the applicant.



because the applicant failed to suggest a figure.



because this figure better characterizes the invention.



None of the figures.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/14086

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>			
IPC 7	C07D409/04	C07D213/64	C07D405/04
	C07D401/12	C07D213/61	C07D213/38
	A61K31/4436	A61K31/4439	A61K31/4412
			A61K31/44
			A61P35/00
According to International Patent Classification (IPC) or to both national classification and IPC			
<b>B. FIELDS SEARCHED</b>			
Minimum documentation searched (classification system followed by classification symbols)			
IPC 7 C07D			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)			
EPO-Internal, WPI Data, PAJ, CHEM ABS Data, BEILSTEIN Data			
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>			
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
P,X	WO 03 040102 A (NOVARTIS PHARMA GMBH ;MANLEY PAUL WILLIAM (CH); NOVARTIS AG (CH);) 15 May 2003 (2003-05-15) see general formula, definitions of R2, reference example 4.1 and starting material thereof (4-Br,3-CF3) and reference example 4		1-16
P,X	WO 03 040101 A (NOVARTIS PHARMA GMBH ;MANLEY PAUL WILLIAM (CH); NOVARTIS AG (CH);) 15 May 2003 (2003-05-15) see reference example 1 and reference example 5		1-16
E	WO 2004 007458 A (AMGEN INC) 22 January 2004 (2004-01-22) see claims 1,8,13		1-16
-/-			
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.		<input checked="" type="checkbox"/> Patent family members are listed in annex.	
<p>* Special categories of cited documents :</p> <p>*A* document defining the general state of the art which is not considered to be of particular relevance</p> <p>*E* earlier document but published on or after the international filing date</p> <p>*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>*O* document referring to an oral disclosure, use, exhibition or other means</p> <p>*P* document published prior to the international filing date but later than the priority date claimed</p> <p>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>*&amp;* document member of the same patent family</p>			
Date of the actual completion of the international search		Date of mailing of the international search report	
31 March 2004		06/04/2004	
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016		Authorized officer  Scruton-Evans, I	

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/14086

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 2004 013102 A (SCHERING AG) 12 February 2004 (2004-02-12) see example 2.0 and 1.0 and general formula and formula IIa -----	1-16
X	WO 02 090352 A (SCHERING AG ;ERNST ALEXANDER (DE); HABEREY MARTIN (DE); HUTH ANDRE) 14 November 2002 (2002-11-14) see A-14a, page 65, formula IIa page 20 and general formula, definitions of E and R2 and R3 and R8 -----	1-16
Y	WO 01 55114 A (NOVARTIS ERFIND VERWALT GMBH ;MANLEY PAUL WILLIAM (CH); NOVARTIS A) 2 August 2001 (2001-08-02) cited in the application see general formula and examples -----	1-16
X	WO 00 27820 A (NOVARTIS ERFIND VERWALT GMBH ;HOFMANN FRANCESCO (CH); MANLEY PAUL) 18 May 2000 (2000-05-18) cited in the application see page 23, 5th last compound and general formula -----	1-16
Y	WO 02 066470 A (AMGEN INC) 29 August 2002 (2002-08-29) see general formula definitions and claim 17 -----	1-16

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/EP 03/14086

### Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
**Although claim 14 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.**
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP 03/14086

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03040102	A	15-05-2003	WO 03040102 A1	15-05-2003
WO 03040101	A	15-05-2003	WO 03040101 A1	15-05-2003
WO 2004007458	A	22-01-2004	US 2003225106 A1 WO 2004007458 A1	04-12-2003 22-01-2004
WO 2004013102	A	12-02-2004	DE 10235690 A1 WO 2004013102 A1	19-02-2004 12-02-2004
WO 02090352	A	14-11-2002	DE 10123574 A1 DE 10125294 A1 DE 10164590 A1 WO 02090352 A2 EP 1392680 A2	28-11-2002 21-11-2002 10-07-2003 14-11-2002 03-03-2004
WO 0155114	A	02-08-2001	AU 2849901 A BR 0107805 A CA 2396590 A1 CN 1396912 T CZ 20022582 A3 WO 0155114 A1 EP 1259487 A1 HU 0204083 A2 JP 2003520853 T NO 20023218 A SK 10852002 A3 US 2003032656 A1 ZA 200205988 A	07-08-2001 22-10-2002 02-08-2001 12-02-2003 16-10-2002 02-08-2001 27-11-2002 28-03-2003 08-07-2003 16-09-2002 02-05-2003 13-02-2003 28-07-2003
WO 0027820	A	18-05-2000	AU 1045400 A AU 758230 B2 AU 1381100 A BG 105588 A BR 9915210 A BR 9915553 A CA 2346898 A1 CA 2350208 A1 CN 1325384 T CN 1331680 T CZ 20011615 A3 CZ 20011631 A3 EE 200100258 A WO 0027819 A2 WO 0027820 A1 EP 1129074 A2 EP 1129075 A1 HR 20010402 A2 HU 0104188 A2 HU 0104425 A2 ID 30181 A JP 2002529452 T JP 2002529453 T NO 20011894 A NO 20012245 A NZ 511339 A PL 347589 A1 PL 348349 A1	29-05-2000 20-03-2003 29-05-2000 30-04-2002 24-07-2001 14-08-2001 18-05-2000 18-05-2000 05-12-2001 16-01-2002 15-08-2001 17-10-2001 16-12-2002 18-05-2000 18-05-2000 05-09-2001 05-09-2001 31-10-2003 28-03-2002 28-03-2002 08-11-2001 10-09-2002 10-09-2002 04-07-2001 10-07-2001 25-07-2003 08-04-2002 20-05-2002

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP 03/14086

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0027820	A		SK 6072001 A3	07-01-2002
			SK 6282001 A3	11-09-2001
			TR 200101237 T2	21-08-2001
			TR 200101307 T2	21-05-2002
			US 2003064992 A1	03-04-2003
			US 2002019414 A1	14-02-2002
			ZA 200103290 A	23-01-2003
			ZA 200104673 A	09-09-2002
WO 02066470	A	29-08-2002	US 2003125339 A1	03-07-2003
			BR 0206435 A	23-09-2003
			CA 2434277 A1	29-08-2002
			EE 200300324 A	15-12-2003
			EP 1358184 A1	05-11-2003
			HU 0302598 A2	28-11-2003
			NO 20033181 A	11-09-2003
			WO 02066470 A1	29-08-2002
			US 2003225106 A1	04-12-2003